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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,605	12/05/2001	Wayne Smith	50277-1755	3517

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HICKMAN PALERMO TRUONG & BECKER, LLP
2055 GATEWAY PLACE
SUITE 550
SAN JOSE, CA 95110

EXAMINER

NGUYEN, MERILYN P

ART UNIT PAPER NUMBER

2161

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Advisory Action
Before the Filing of an Appeal Brief**

Application No.

10/006,605

Applicant(s)

SMITH ET AL.

Examiner

Merilyn P Nguyen

Art Unit

2161

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 03/09/2005 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The reply was filed after the date of filing a Notice of Appeal, but prior to the date of filing an appeal brief. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) ☒ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☒ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See *Continuation Sheet*. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☒ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: 1-14.
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s). _____.
13. ☐ Other: _____.

Continuation of 3. NOTE: The proposed amendments to claims 1,5, and 9 and additional claims 15-28 would require further search and consideration.

Frantz Coby
FRANTZ COBY
PRIMARY EXAMINER

AMENDMENTS TO THE CLAIMS

- 1 1. (Currently Amended) A method for managing materialized views, the method comprising
2 the steps of:
3 a database management system receiving a request to generate a materialized view that
4 contains objects of an object class;
5 in response to receiving said request, said database management system creating said
6 materialized view; ~~and~~
7 said database management system performing operations on said objects as instances of
8 said object ~~class~~-class; and
9 wherein said object class defines one or more attributes and one or more routines to
10 invoke to operate on the state of the objects of said object class.

- 1 2. (Original) The method of claim 1, wherein the step of creating said
2 materialized view includes the step of creating an object materialized view,
3 wherein said object materialized view is associated with an object class and
4 contains instances of said object class that correspond to rows of said object
5 materialized view.

- 1 3. (Original) The method of claim 1, wherein the step of creating said materialized view
2 includes creating an object-relational view that includes at least one object column.

- 1 4. (Original) The method of claim 1, wherein the method further includes the step of
2 receiving another request from a user requesting performance of said operations on said
3 objects as instances of said object class.

- 1 5. (Currently Amended) The method of claim 1, wherein the step of said database
2 management system performing operations includes performing an operation on said
3 objects by invoking a routine ~~associated with~~ defined by said object class.

- 1 6. (Original) The method of claim 1, further including the step of said database management
2 system generating refresh code that refreshes said materialized view.
- 1 7. (Original) The method of claim 1, further including the step of generating refresh code
2 that may be executed to fully refresh said materialized view.
- 1 8. (Original) The method of claim 1, further including the step of generating refresh code
2 that refreshes said materialized view based on modifications to one or more base tables of
3 said materialized views.
- 1 9. (Currently Amended) The method of claim 8, wherein:
2 said materialized view includes an object column ~~associated with~~ defined by said object
3 class,
4 the object class ~~is associated with~~ defines attributes;
5 the step of creating said materialized view includes creating a container table that
6 includes corresponding columns that correspond to said attributes and that hold
7 values for said attributes; and
8 the step of generating refresh code includes the step of generating refresh code that
9 references said corresponding columns but not as said attributes of said object
10 class.
- 1 10. (Original) The method of claim 1, wherein said materialized view includes an object
2 column that has a plurality of nested tables that contain nested table objects.
- 1 11. (Original) The method of claim 10, wherein the step of creating said materialized view
2 includes the steps of:
3 creating a container table for said materialized view; and
4 creating another table that holds attributes of nested table objects of said plurality of
5 nested tables.

1 12. (Original) The method of claim 1, wherein:
2 said materialized view is associated with one or more base tables;
3 a base table of said one or more base tables includes a base column typed as an
4 object reference; and
5 wherein the step of creating said materialized view includes creating a particular
6 column that:
7 corresponds to said base column, and
8 is typed as an object reference.

1 13. (Original) The method of claim 12, wherein:
2 a first scope of said base column is a first set of tables; and
3 the particular column has a second scope that is different than said first scope.

1 14. (Original) The method of claim 13, wherein the second scope is another
2 materialized view based on said first set of tables.

1 15. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 1.

1 16. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 2.

1 17. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 3.

1 18. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 4.

- 1 19. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 5.
- 1 20. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 6.
- 1 21. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 7.
- 1 22. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 8.
- 1 23. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 9.
- 1 24. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 10.
- 1 25. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 11.
- 1 26. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 12.
- 1 27. (New) A computer-readable medium carrying one or more sequences of
2 instructions which, when executed by one or more processors, causes the one or
3 more processors to perform the method recited in Claim 13.

- 1 28. (New) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or
- 3 more processors to perform the method recited in Claim 14.